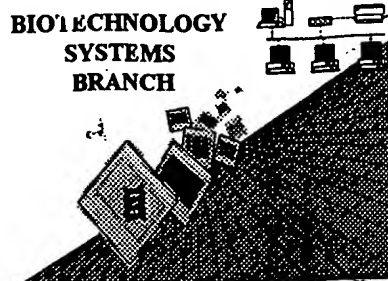


RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/724,105
Source: O/PK
Date Processed by STIC: 2/17/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/724,105

DATE: 07/17/2001
TIME: 09:20:47

Input Set : A:\51320-AA.txt
Output Set: N:\CRF3\07172001\I724105.raw

pp 1-5
Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Graham P. Allaway et al.
5 <120> TITLE OF INVENTION: USES OF A CHEMOKINE RECEPTOR FOR INHIBITING HIV-1 INFECTION
7 <130> FILE REFERENCE: 2048/51320-AA/JPW/SHS
9 <140> CURRENT APPLICATION NUMBER: 09/724,105
10 <141> CURRENT FILING DATE: 2000-11-28
12 <160> NUMBER OF SEQ ID NOS: 30
14 <170> SOFTWARE: PatentIn version 3.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 38
18 <212> TYPE: DNA
C--> 19 <213> ORGANISM: artificial
W--> 21 <220> FEATURE:
W--> 21 <223> OTHER INFORMATION:
21 <400> SEQUENCE: 1
22 caaggctact tccctgattg gcagaactac acaccagg 38
25 <210> SEQ ID NO: 2
26 <211> LENGTH: 25
27 <212> TYPE: DNA
C--> 28 <213> ORGANISM: artificial
W--> 30 <220> FEATURE:
W--> 30 <223> OTHER INFORMATION:
30 <400> SEQUENCE: 2
31 agcaagccga gtcctgcgctc gagag 25
34 <210> SEQ ID NO: 3
35 <211> LENGTH: 23
36 <212> TYPE: DNA
C--> 37 <213> ORGANISM: artificial
W--> 39 <220> FEATURE:
W--> 39 <223> OTHER INFORMATION:
39 <400> SEQUENCE: 3
40 gggactttcc gctggggact ttc 23
43 <210> SEQ ID NO: 4
44 <211> LENGTH: 33
45 <212> TYPE: DNA
C--> 46 <213> ORGANISM: artificial
W--> 48 <220> FEATURE:
W--> 48 <223> OTHER INFORMATION:
48 <400> SEQUENCE: 4
49 cctgttcggg cgccactgct agagattttc cac 33
52 <210> SEQ ID NO: 5
53 <211> LENGTH: 31
54 <212> TYPE: PRT
55 <213> ORGANISM: human
57 <400> SEQUENCE: 5
59 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
60 1 5 10 15
62 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg

(global error)
see item 11 on Error Summary Sheet

RAW SEQUENCE LISTING

DATE: 07/17/2001

PATENT APPLICATION: 05/09/124,105

TIME: 09:20:47

Input Set : A:\51320-AA.txt

Output Set : N:\CRF3\07172001\I724105.raw

2

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63          20          25          30
65 <210> SEQ ID NO: 6
66 <211> LENGTH: 15
67 <212> TYPE: PRT
68 <213> ORGANISM: human
70 <400> SEQUENCE: 6
72 His Tyr Ala Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys Gln
73 1          5          10          15
75 <210> SEQ ID NO: 7
76 <211> LENGTH: 32
77 <212> TYPE: PRT
78 <213> ORGANISM: human
80 <400> SEQUENCE: 7
82 Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser His Phe Pro
83 1          5          10          15
85 Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile Val
86          20          25          30
88 <210> SEQ ID NO: 8
89 <211> LENGTH: 17
90 <212> TYPE: PRT
91 <213> ORGANISM: human
93 <400> SEQUENCE: 8
95 Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg Leu Asp
96 1          5          10          15
98 Gln
101 <210> SEQ ID NO: 9
102 <211> LENGTH: 36
103 <212> TYPE: DNA
C--> 104 <213> ORGANISM: artificial
W--> 106 <220> FEATURE:
W--> 106 <223> OTHER INFORMATION:
106 <400> SEQUENCE: 9
107 aagcttgagg aaccagcggg taccatggag gggatc          36
110 <210> SEQ ID NO: 10
111 <211> LENGTH: 30
112 <212> TYPE: DNA
C--> 113 <213> ORGANISM: artificial
W--> 115 <220> FEATURE:
W--> 115 <223> OTHER INFORMATION:
115 <400> SEQUENCE: 10
116 gtctgagtct gagtcaagct tggagaacca          30
119 <210> SEQ ID NO: 11
120 <211> LENGTH: 41
121 <212> TYPE: DNA
C--> 122 <213> ORGANISM: artificial
W--> 124 <220> FEATURE:
W--> 124 <223> OTHER INFORMATION:
124 <400> SEQUENCE: 11
125 ctcgagcatc tgtgttagct ggagtgaaaa cttgaagact c          41
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RAW SEQUENCE LISTING

DATE: 07/17/2001

PATENT APPLICATION: 08/09/124,105

TIME: 09:20:11

Input Set : A:\51320-AA.txt

Output Set : N:\CRF3\07172001\I724105.raw

3

128 <210> SEQ ID NO: 12
129 <211> LENGTH: 30
130 <212> TYPE: DNA
C--> 131 <213> ORGANISM: artificial
W--> 133 <220> FEATURE:
W--> 133 <223> OTHER INFORMATION:
133 <400> SEQUENCE: 12
134 gtctgagtct gagtcctoga gcatctgtgt 30
137 <210> SEQ ID NO: 13
138 <211> LENGTH: 32
139 <212> TYPE: DNA
C--> 140 <213> ORGANISM: artificial
W--> 142 <220> FEATURE:
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142 <400> SEQUENCE: 13
143 aagcttcaga gagaagccgg gatggaaact cc 32
146 <210> SEQ ID NO: 14
147 <211> LENGTH: 30
148 <212> TYPE: DNA
C--> 149 <213> ORGANISM: artificial
W--> 151 <220> FEATURE:
W--> 151 <223> OTHER INFORMATION:
151 <400> SEQUENCE: 14
152 gtctgagtct gagtcaagct tcagagagaa 30
155 <210> SEQ ID NO: 15
156 <211> LENGTH: 32
157 <212> TYPE: DNA
C--> 158 <213> ORGANISM: artificial
W--> 160 <220> FEATURE:
W--> 160 <223> OTHER INFORMATION:
160 <400> SEQUENCE: 15
161 ctcgagctga gtcagaaccc agcagagagt tc 32
164 <210> SEQ ID NO: 16
165 <211> LENGTH: 30
166 <212> TYPE: DNA
C--> 167 <213> ORGANISM: artificial
W--> 169 <220> FEATURE:
W--> 169 <223> OTHER INFORMATION:
169 <400> SEQUENCE: 16
170 gtctgagtct gagtcctoga gctgagtcag 30
173 <210> SEQ ID NO: 17
174 <211> LENGTH: 32
175 <212> TYPE: DNA
C--> 176 <213> ORGANISM: artificial
W--> 178 <220> FEATURE:
W--> 178 <223> OTHER INFORMATION:
178 <400> SEQUENCE: 17
179 aagcttcagt acatccacaa catgctgtcc ac 32
182 <210> SEQ ID NO: 18

RAW SEQUENCE LISTING

DATE: 07/17/2001

PATENT APPLICATION: US/09/1724,105

TIME: 09:20:47

Input Set : A:\51320-AA.txt

Output Set: N:\CRF3\07172001\I724105.raw

183 <211> LENGTH: 30
184 <212> TYPE: DNA
C--> 185 <213> ORGANISM: artificial
W--> 187 <220> FEATURE:
W--> 187 <223> OTHER INFORMATION:
187 <400> SEQUENCE: 18
188 gtctgagtct gagtcaagct tcagtacatc 30
191 <210> SEQ ID NO: 19
192 <211> LENGTH: 31
193 <212> TYPE: DNA
C--> 194 <213> ORGANISM: artificial
W--> 196 <220> FEATURE:
W--> 196 <223> OTHER INFORMATION:
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197 ctcgagcctc gttttataaa ccagccgaga c 31
200 <210> SEQ ID NO: 20
201 <211> LENGTH: 30
202 <212> TYPE: DNA
C--> 203 <213> ORGANISM: artificial
W--> 205 <220> FEATURE:
W--> 205 <223> OTHER INFORMATION:
205 <400> SEQUENCE: 20
206 gtctgagtct gagtcctcga gcctcgtttt 30
209 <210> SEQ ID NO: 21
210 <211> LENGTH: 29
211 <212> TYPE: DNA
C--> 212 <213> ORGANISM: artificial
W--> 214 <220> FEATURE:
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215 aaagcttcagg gagaagtga atgacaacc 29
218 <210> SEQ ID NO: 22
219 <211> LENGTH: 30
220 <212> TYPE: DNA
C--> 221 <213> ORGANISM: artificial
W--> 223 <220> FEATURE:
W--> 223 <223> OTHER INFORMATION:
223 <400> SEQUENCE: 22
224 gtctgagtct gagtcaagct tcagggagaa 30
227 <210> SEQ ID NO: 23
228 <211> LENGTH: 33
229 <212> TYPE: DNA
C--> 230 <213> ORGANISM: artificial
W--> 232 <220> FEATURE:
W--> 232 <223> OTHER INFORMATION:
232 <400> SEQUENCE: 23
233 ctcgagcaga cctaaaacac aatagagagt tcc 33
236 <210> SEQ ID NO: 24
237 <211> LENGTH: 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US709/724,105

DATE: 07/17/2001

TIME: 09:20:47

Input Set : A:\51320-AA.txt

Output Set: N:\CRF3\07172001\I724105.raw

238 <212> TYPE: DNA
C--> 239 <213> ORGANISM: artificial
W--> 241 <220> FEATURE:
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C--> 248 <213> ORGANISM: artificial
W--> 250 <220> FEATURE:
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256 <212> TYPE: DNA
C--> 257 <213> ORGANISM: artificial
W--> 259 <220> FEATURE:
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260 gtctgagtct gagtcaagct tctgtagagt 30
263 <210> SEQ ID NO: 27
264 <211> LENGTH: 34
265 <212> TYPE: DNA
C--> 266 <213> ORGANISM: artificial
W--> 268 <220> FEATURE:
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269 ctcgagccat ttcatttttc tacaggacag catc 34
272 <210> SEQ ID NO: 28
273 <211> LENGTH: 30
274 <212> TYPE: DNA
C--> 275 <213> ORGANISM: artificial
W--> 277 <220> FEATURE:
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281 <210> SEQ ID NO: 29
282 <211> LENGTH: 39
283 <212> TYPE: DNA
C--> 284 <213> ORGANISM: artificial
W--> 286 <220> FEATURE:
W--> 286 <223> OTHER INFORMATION:
286 <400> SEQUENCE: 29
287 gtctgagtct gagtcaagct taacaagatg gattatcaa 39
290 <210> SEQ ID NO: 30
291 <211> LENGTH: 39
292 <212> TYPE: DNA

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

DATE: 07/17/2001

PATENT APPLICATION: US/09/724,105

TIME: 09:20:46

Input Set : A:\51320-AA.txt

Output Set: N:\CRF3\07172001\I724105.raw

L:19 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:21 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:21 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:28 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:30 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:30 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:37 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:39 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:39 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:46 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:48 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:104 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:106 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:106 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
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L:115 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:115 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:122 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:124 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:124 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:131 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
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L:140 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
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L:151 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:151 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:158 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
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L:167 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:169 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:169 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:185 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:187 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:187 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:194 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:196 M:258 W: Mandatory Feature missing, <220> FEATURE:
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VERIFICATION SUMMARY

DATE: 07/17/2001

PATENT APPLICATION: US/09/724,105

Input Set : A:\51320-AA.txt

Output Set: N:\CRF3\07172001\I724105.raw

L:212 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
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L:223 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
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L:232 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
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L:250 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:257 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
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L:259 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:266 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:268 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:268 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:275 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
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L:277 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:284 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:286 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:286 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:293 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30